CONCRETE PLANER

PC5000C

REPAIR MANUAL

► Repair

CAUTION: Remove the offset diamond wheel from the machine for safety before repair/ maintenance in accordance with the instruction manual!

[1] NECESSARY REPAIRING TOOLS

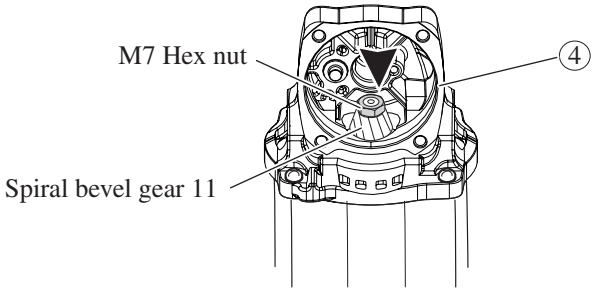
Code No.	Description	Use for
1R004	Retaining ring S pliers ST-2	Removing / Assembling Ring spring 11
1R029	Bearing setting pipe 23-15.2	Assembling Spiral bevel gear 35A to Spindle
1R034	Bearing setting pipe 12.2	
1R268	Spring pin extractor 3	Removing Shoulder pin 5 from Pin cap
1R269	Bearing Extractor	Removing Ball bearings 608DDW and 696ZZ
1R291	Retaining ring S & R pliers	Removing Retaining ring R-30 from Gear housing
1R350	Ring 60	Supporting Skirt complete when removing Spindle from Spiral bevel gear 35A

[2] LUBRICATIONS

Apply Makita grease SG.No.0 to the following portions designated with the black triangle to protect parts and product from unusual abrasion.

Item No.	Description	Portion to lubricate	Amount
④	Gear housing complete	Gear room for engaging Spiral bevel gear 11 with Spiral bevel gear 35A	20g

Fig. 1



[3] DISASSEMBLY/ASSEMBLY

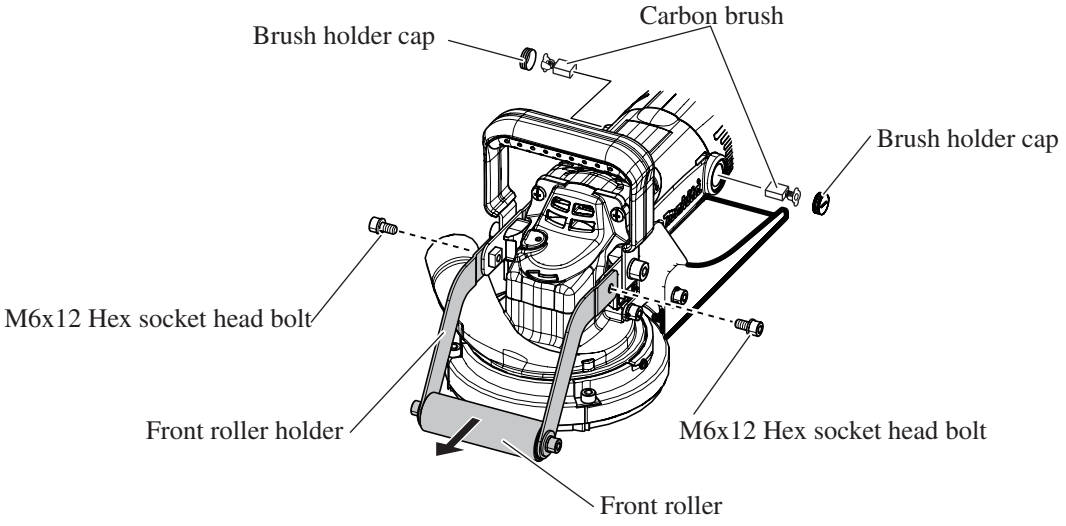
[3]-1. Armature, Spiral bevel gear 11

DISASSEMBLING

(1) Disassemble Front roller as illustrated in **Fig. 2**.

Fig. 2

Remove Carbon brushes to remove Armature later.
Separate Front roller and Front roller holder from the machine by removing two M6x12 Hex socket head bolts.



► Repair

[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Spiral bevel gear 11 (cont.)

DISASSEMBLING

(2) Disassemble Grip and Base section from the machine as illustrated in **Fig. 3**.
Spiral bevel gear 11 and Armature can be disassembled as illustrated in **Fig. 4**.

Fig. 3

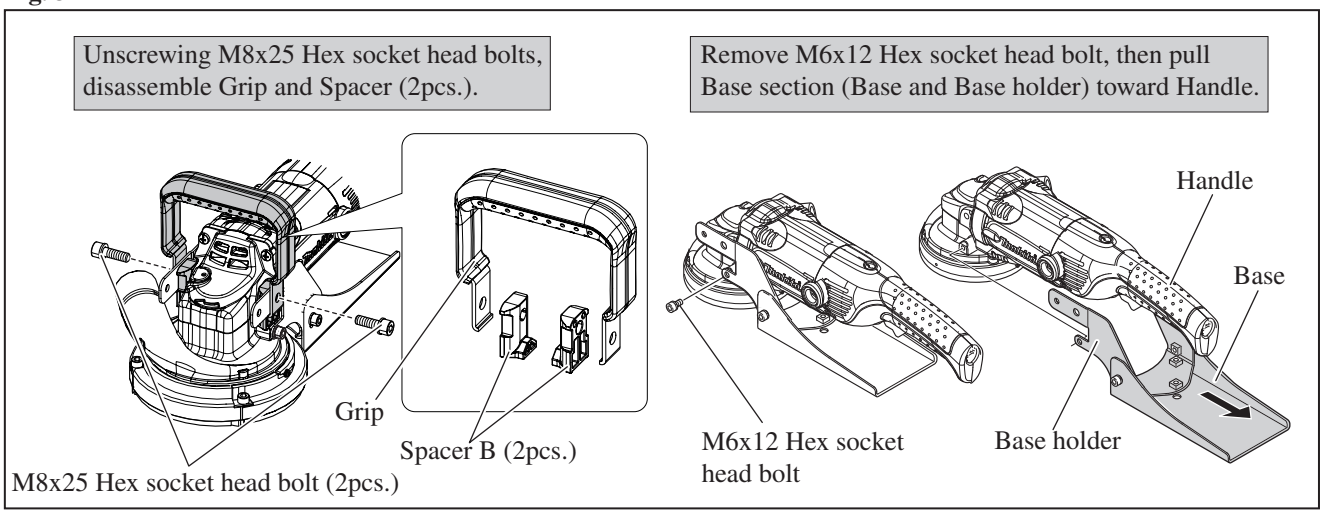
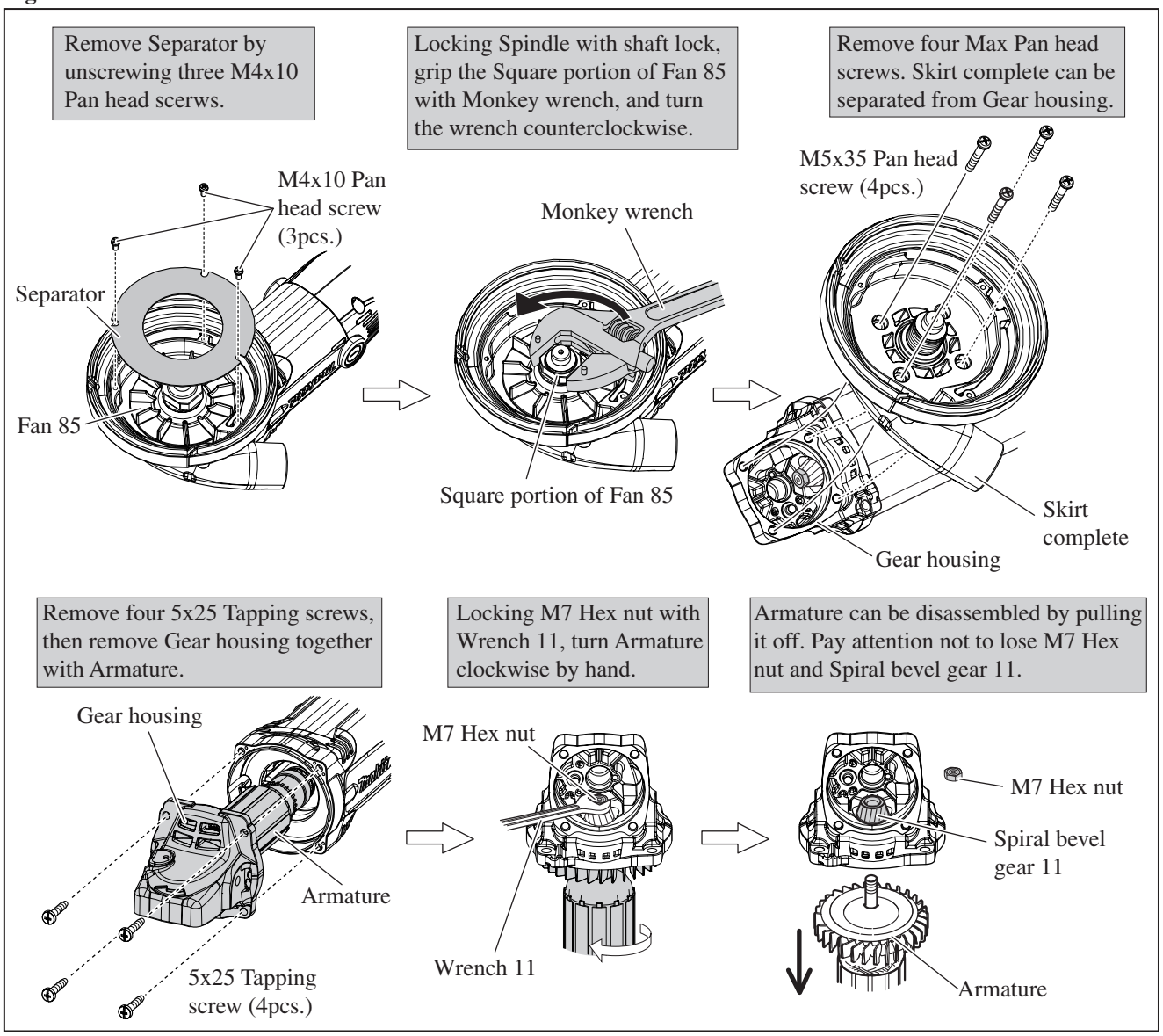


Fig. 4



► Repair

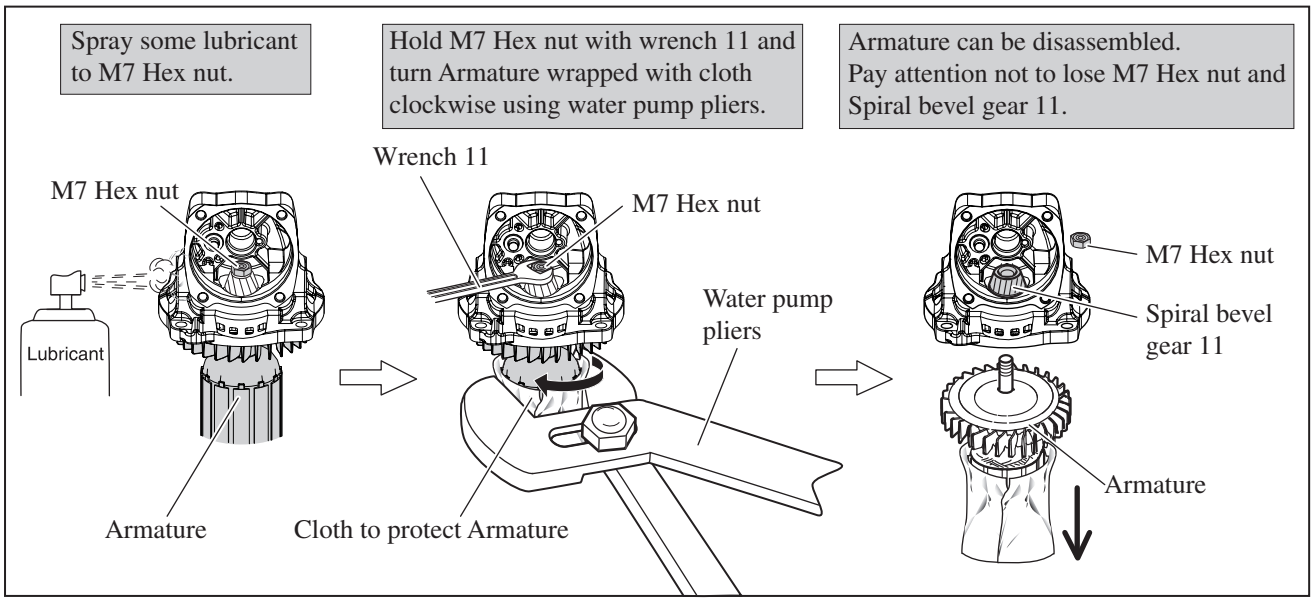
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Spiral bevel gear 11

DISASSEMBLING

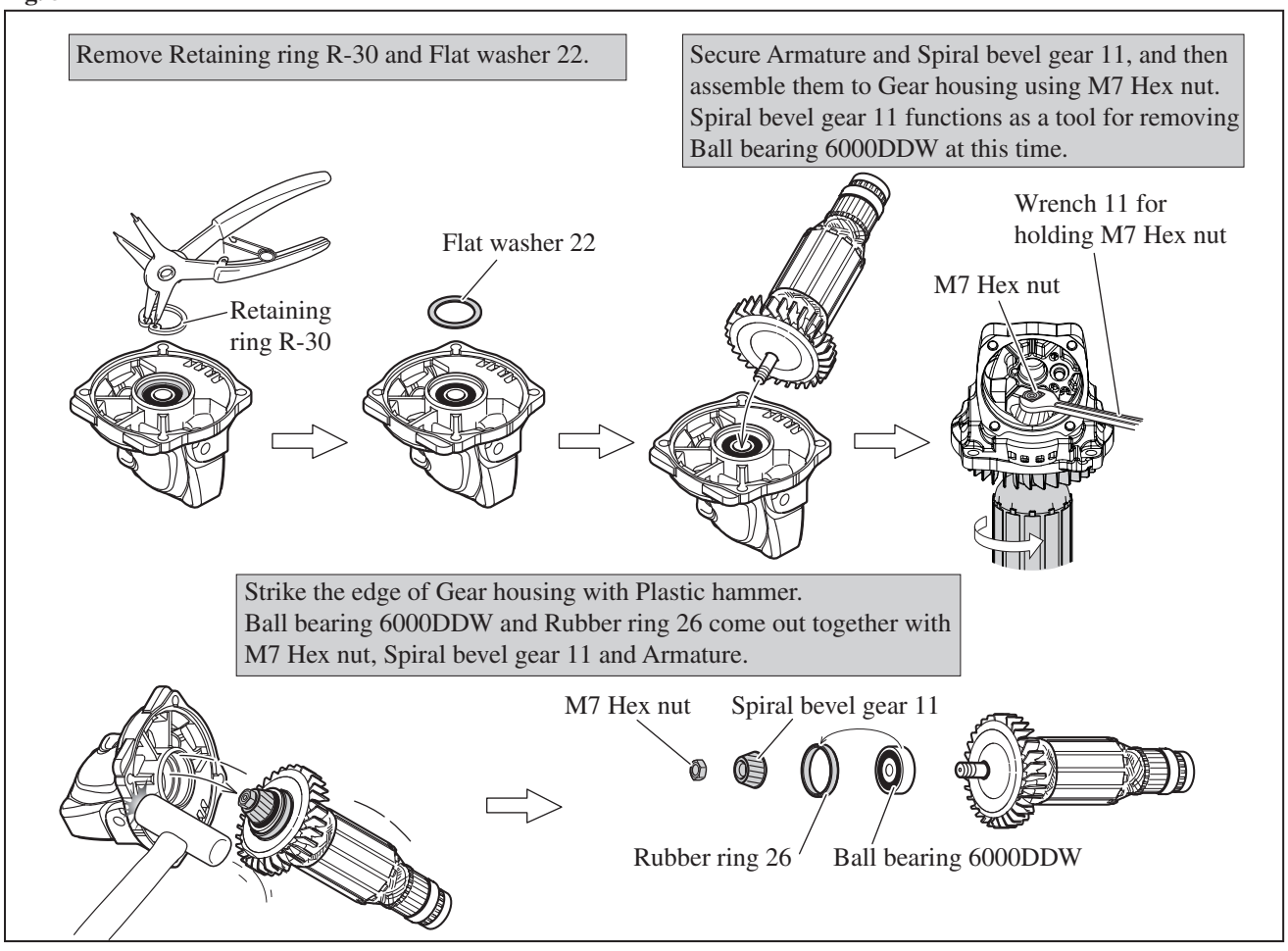
(2-S) If it is difficult to remove Armature by hand;
1) spray some lubricant to M7 Hex nut.
2) turn Armature with water pump pliers while holding M7 Hex nut with wrench 11.
Refer to Fig. 4-S.

Fig. 4-S



(3) Retaining ring R-30, Flat washer 22, Ball bearing 6000DDW and Rubber ring 26 are still left in Gear housing. They can be disassembled as illustrated in **Fig. 5**.

Fig. 5



Repair

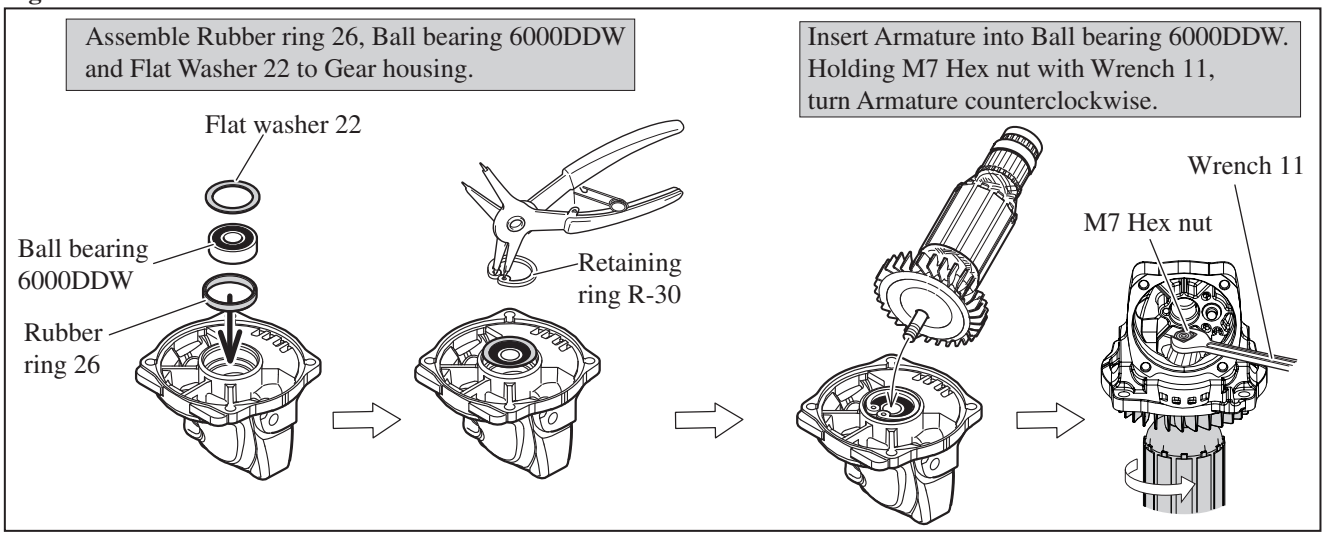
[3] DISASSEMBLY/ASSEMBLY

[3]-1. Armature, Spiral bevel gear 11 (cont.)

ASSEMBLING

(1) Assemble Armature to Gear housing as illustrated in **Fig. 6**.

Fig. 6



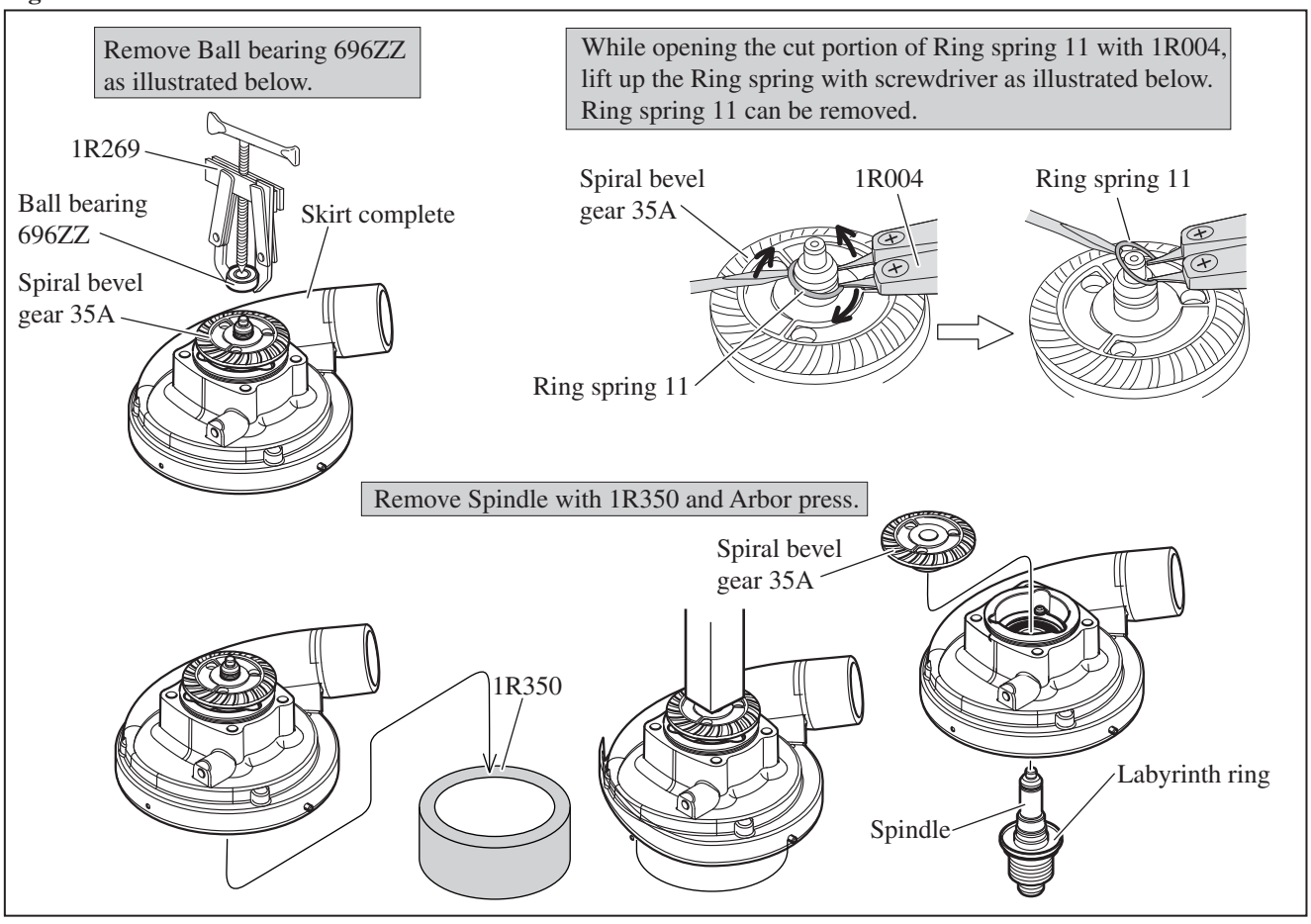
(2) Take the disassembling step in reverse. Refer to **Fig. 4, 3, 2**.

[3]-2. Skirt section (Spiral bevel gear 35A, Ball bearings, Spindle)

DISASSEMBLING

(1) Separate Skirt complete from Gear housing, as illustrated in **Figs. 3 and 4**.
But no need to separate Gear housing from Motor housing.
(2) Disassemble Gear and spindle from Skirt as illustrated in **Fig. 7**.
Note: Do not deform Labyrinth ring on Spindle.

Figs. 7



Repair

[3] DISASSEMBLY/ASSEMBLY

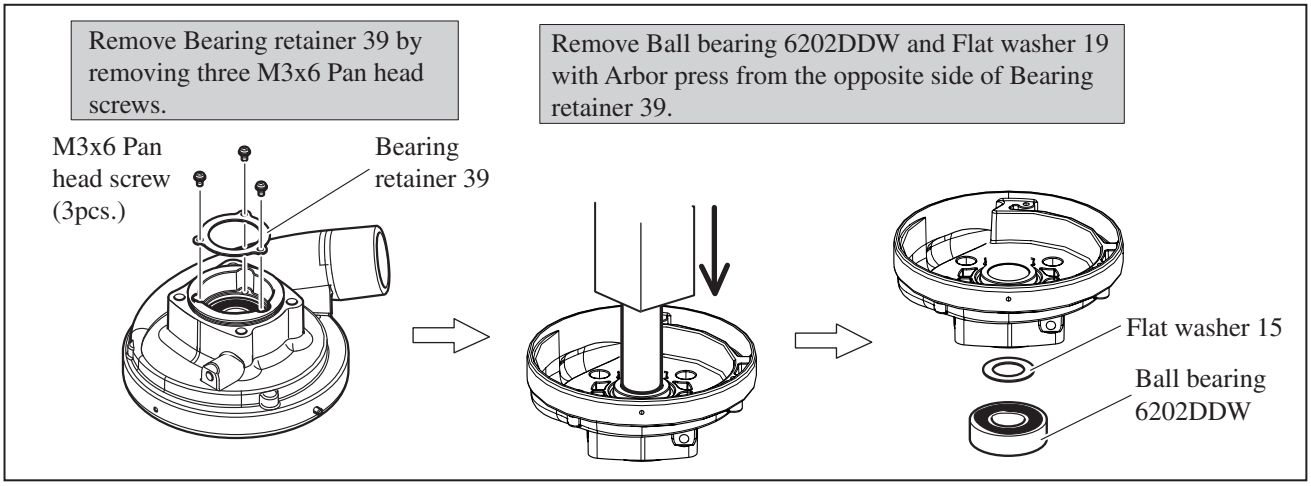
[3]-2. Skirt section (Spiral bevel gear 35A, Ball bearings, Spindle) (cont.)

DISASSEMBLING

(2) Remove the damaged Ball bearing 6202DDW as illustrated in **Fig. 8**.

Note: Disassembling Spindle section causes a damage to Ball bearing 6202DDW. **Therefore,** do not reassemble the removed Ball bearing 6202DDW. Replace it with the fresh Ball bearing 6202DDW.

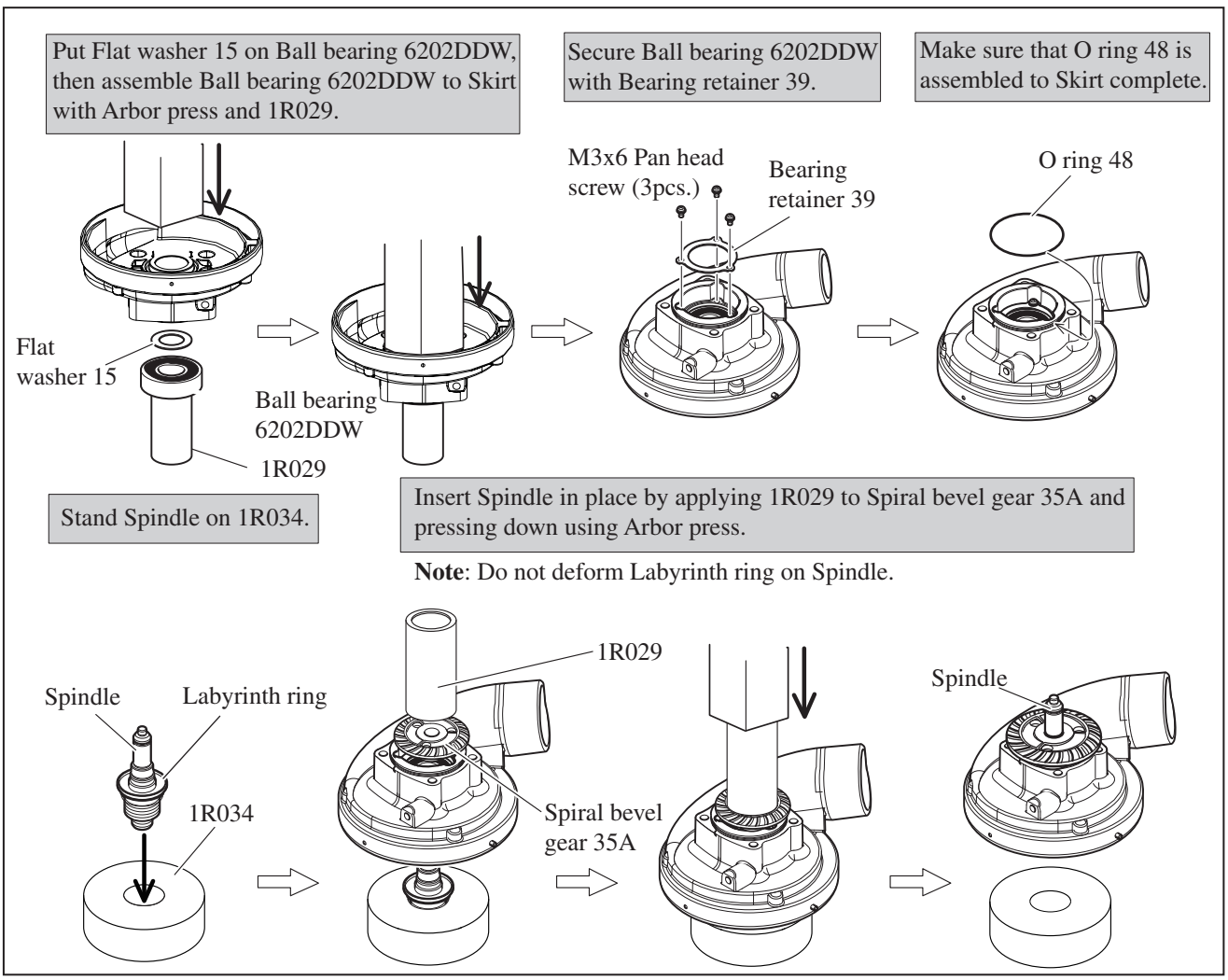
Figs. 8



ASSEMBLING

(1) Assemble Skirt section as illustrated in **Fig. 9.**

Figs. 9



► Repair

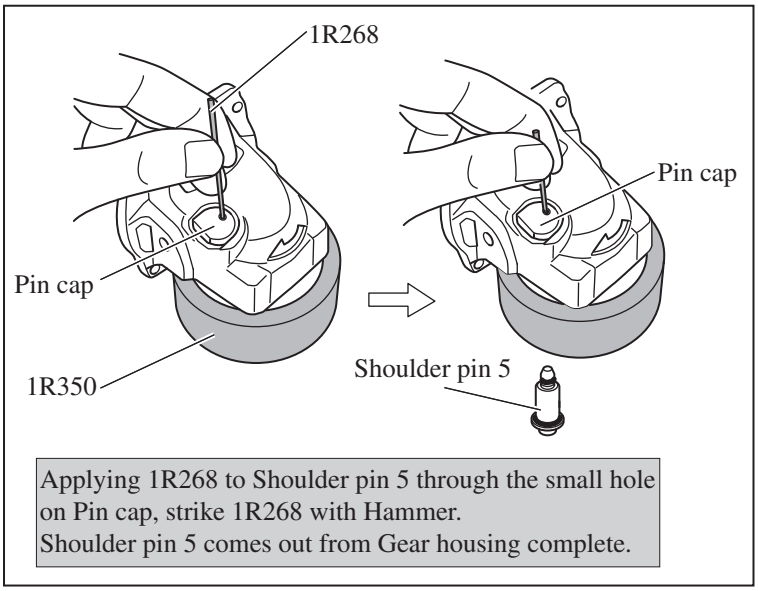
[3] DISASSEMBLY/ASSEMBLY

[3] -3. Shaft lock mechanism

DISASSEMBLING

(1) Remove Front roller and Base section as illustrated in **Figs. 2 and 3**.
(2) Remove skirt complete as illustrated in **Fig. 4**. But, no need to separate Gear housing from Motor housing.
(3) Now, Shaft lock mechanism can be disassembled as illustrated in **Figs. 10 and 11**.

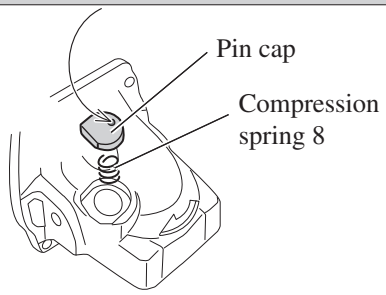
Fig. 10



Applying 1R268 to Shoulder pin 5 through the small hole on Pin cap, strike 1R268 with Hammer.
Shoulder pin 5 comes out from Gear housing complete.

Fig. 11

Impossible to reuse Pin cap, because removal of Shoulder pin 4 damages the Pin cap.



Release 1R268 from Pin cap carefully so as not to sling Pin cap by Compression spring 8.

ASSEMBLING

(1) Be sure to use new Pin cap for replacement and to remove all the plastic dust on Shoulder pin 5. (**Fig. 12**)
(2) Assemble the components for Shaft lock mechanism as illustrated in **Fig. 13**.

Fig. 12

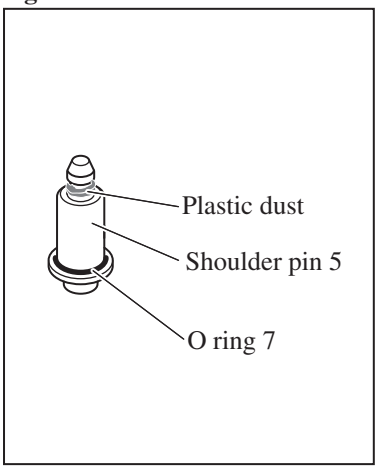
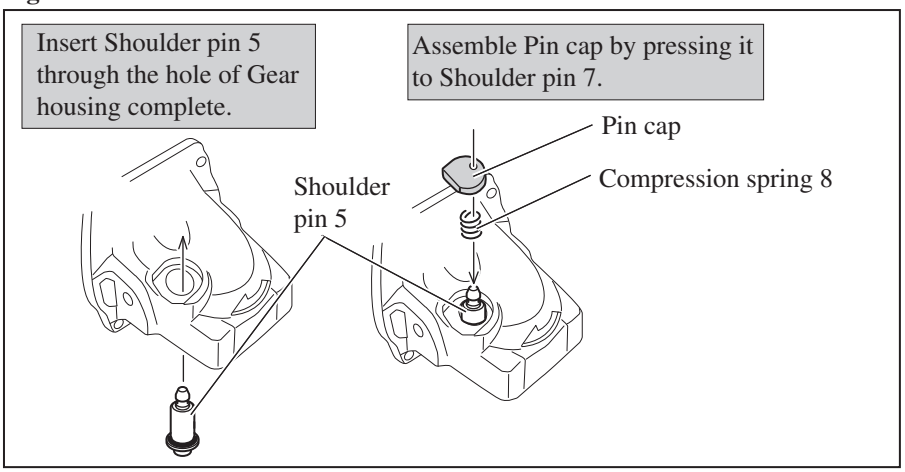
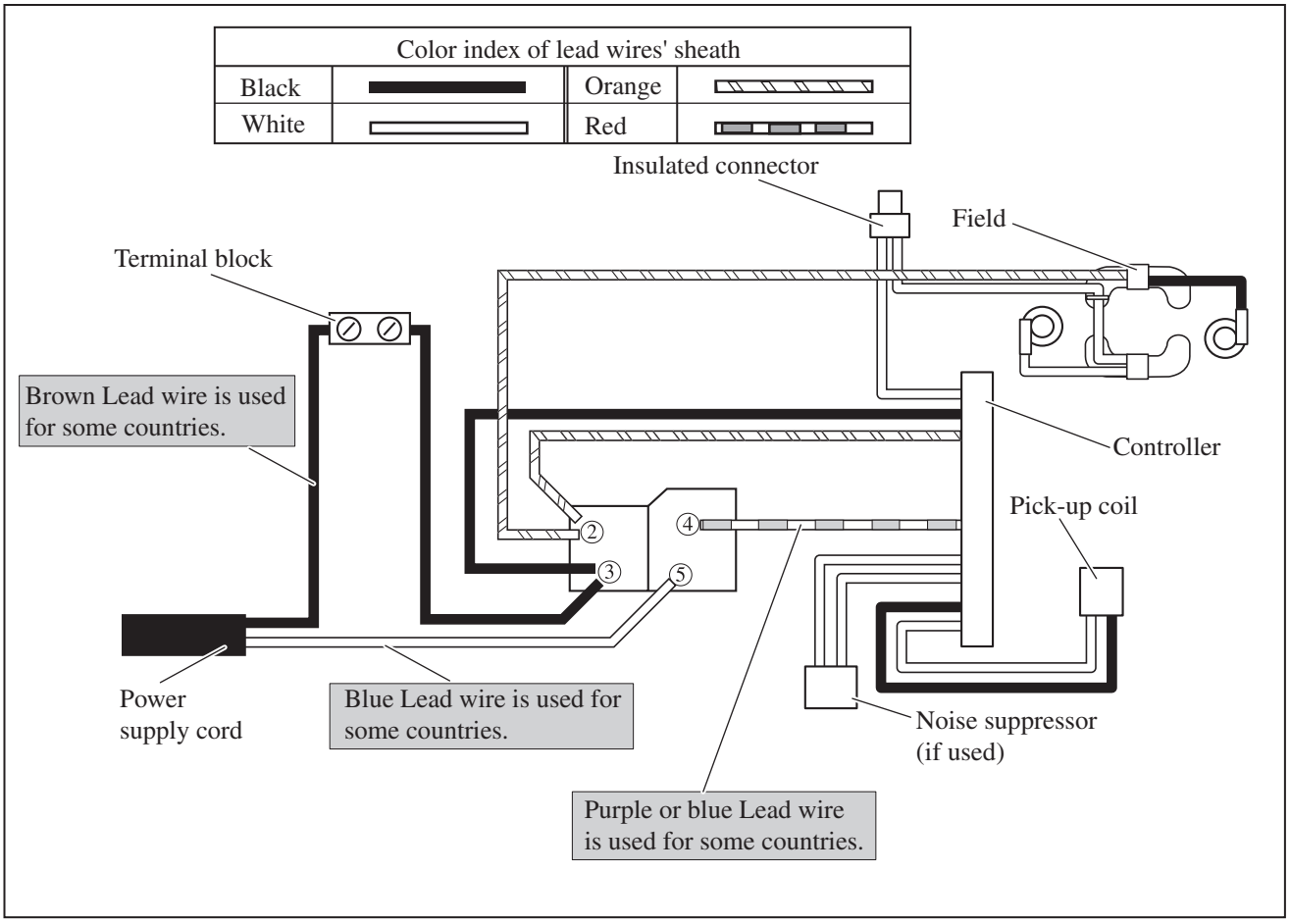


Fig. 13



Circuit diagram

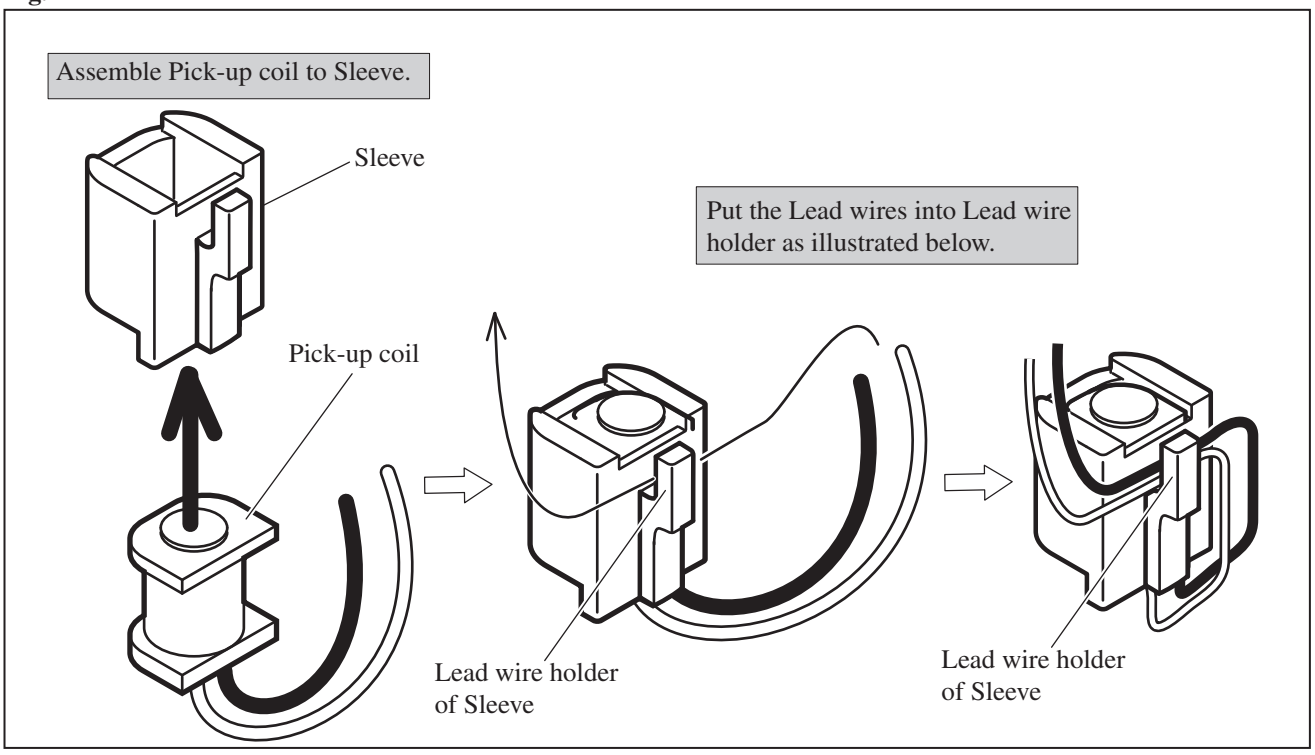
Fig. D-1



Wiring diagram

Wiring of Pick-up coil

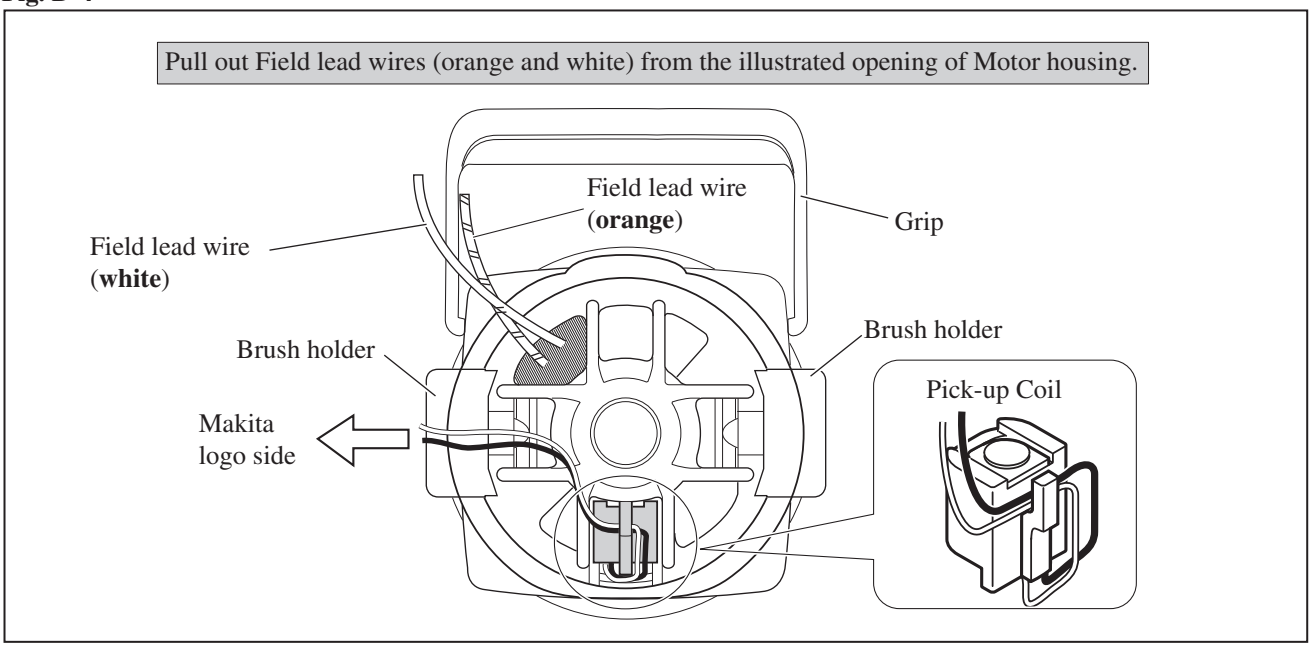
Fig. D-2



Wiring diagram

Wiring in Motor Housing

Fig. D-4



Wiring in Handle

Fig. D-5